

**AMENDMENTS TO THE CLAIMS**

For the convenience of the Examiner, all claims have been presented whether or not an amendment has been made. The claims have been amended as follows:

1. (Currently Amended) A method for performing compression, comprising:  
receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;  
ignoring a change in the predetermined increment associated with the packet identifiers;  
compressing the plurality of packets; and  
transmitting the flow to a decompressor; and  
determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier.
2. (Original) The method of Claim 1, further comprising:  
receiving the flow at the decompressor, each packet of the flow having a sequence number;  
detecting a skip in the sequence numbers of the plurality of packets of the flow; and  
accepting the flow having the skip in the sequence numbers.
3. (Currently Amended) The method of Claim 1, further comprising:  
determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;  
establishing that the flow comprises a compressed packet in the place of a full header packet; and  
establishing that the full header packet is lost.

4. (Currently Amended) A system for performing compression, comprising:  
a compressor operable to:

receive a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignore a change in the predetermined increment associated with the packet identifiers;

compress the plurality of packets; and

transmit the flow; and

a decompressor coupled to the compressor operable to decompress the flow; and further operable to:

determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier.

5. (Original) The system of Claim 4, the decompressor further operable to:  
receive the flow, each packet of the flow having a sequence number;  
detect a skip in the sequence numbers of the plurality of packets of the flow; and  
accept the flow having the skip in the sequence numbers.

6. (Currently Amended) The system of Claim 4, the decompressor further operable to:

~~determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;~~

establish that the flow comprises a compressed packet in the place of a full header packet; and

establish that the full header packet is lost.

7. (Currently Amended) Logic for performing compression, the logic embodied in a medium and operable to:

receive at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignore a change in the predetermined increment associated with the packet identifiers;

compress the plurality of packets; and

transmit the flow to a decompressor; and

determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier.

8. (Original) The logic of Claim 7, further operable to:

receive the flow at the decompressor, each packet of the flow having a sequence number;

detect a skip in the sequence numbers of the plurality of packets of the flow; and accept the flow having the skip in the sequence numbers.

9. (Currently Amended) The logic of Claim 7, further operable to:

~~determine that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;~~

establish that the flow comprises a compressed packet in the place of a full header packet; and

establish that the full header packet is lost.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Original) A method for performing compression, comprising:  
receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;  
ignoring a change in the predetermined increment associated with the packet identifiers;  
compressing the plurality of packets;  
transmitting the flow to a decompressor;  
receiving the flow at the decompressor, each packet of the flow having a sequence number;  
detecting a skip in the sequence numbers of the plurality of packets of the flow;  
accepting the flow having the skip in the sequence numbers;  
determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;  
establishing that the flow comprises a compressed packet in the place of a full header packet; and  
establishing that the full header packet is lost.

27. (Cancelled)

28. (Previously Presented) The method of Claim 1, further comprising:  
determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;  
establishing that the context identifier is available; and  
assigning the context identifier to the flow in response to establishing that the context identifier is available.

29. (Previously Presented) The method of Claim 1, further comprising:  
determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and  
establishing that the context identifier is available.

30. (Previously Presented) The method of Claim 1, further comprising:  
establishing that a context identifier is available;  
assigning the context identifier to the flow;  
appending a full header packet corresponding to the context identifier to the flow; and  
transmitting the flow to the decompressor.

31. (Previously Presented) The system of Claim 4, the compressor further operable to:

determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;  
establish that the context identifier is available; and  
assign the context identifier to the flow in response to establishing that the context identifier is available.

32. (Previously Presented) The system of Claim 4, the compressor further operable to:

determine that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and  
establish that the context identifier is available.

33. (Previously Presented) The system of Claim 4, the compressor further operable to:

establish that a context identifier is available;  
assign the context identifier to the flow;  
append a full header packet corresponding to the context identifier to the flow; and  
transmit the flow to the decompressor.

34. (Previously Presented) The logic of Claim 7, further operable to:

determine at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier;

establish that the context identifier is available; and  
assign the context identifier to the flow in response to establishing that the context identifier is available.

35. (Previously Presented) The logic of Claim 7, further operable to:

determine at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period; and

establish that the context identifier is available.

36. (Previously Presented) The logic of Claim 7, further operable to:

establish that a context identifier is available;  
assign the context identifier to the flow;  
append a full header packet corresponding to the context identifier to the flow; and  
transmit the flow to the decompressor.

37. (Currently Amended) A system for performing compression, comprising:  
means for receiving at a compressor a flow comprising a plurality of packets, each  
packet having a packet identifier, the packet identifiers associated with a predetermined  
increment;  
means for ignoring a change in the predetermined increment associated with the  
packet identifiers;  
means for compressing the plurality of packets; and  
means for transmitting the flow to a decompressor; and  
means for determining that a previous inactive time of a previous flow has exceeded a  
previous maximum allowed inactivity period, the previous flow associated with a context  
identifier,

38. (Previously Presented) A method for performing compression, comprising:

receiving at a compressor a flow comprising a plurality of packets, each packet having a packet identifier, the packet identifiers associated with a predetermined increment;

ignoring a change in the predetermined increment associated with the packet identifiers;

determining at the compressor that a previous inactive time of a previous flow has exceeded a previous maximum allowed inactivity period, the previous flow associated with a context identifier, the previous inactive time exceeding the previous maximum allowed inactivity period prior to exceeding an expiration period;

establishing that the context identifier is available;

assigning the context identifier to the flow in response to establishing that the context identifier is available;

appending a full header packet corresponding to the context identifier to the flow;

compressing the plurality of packets;

transmitting the flow to a decompressor;

receiving the flow at the decompressor, each packet of the flow having a sequence number;

detecting a skip in the sequence numbers of the plurality of packets of the flow;

accepting the flow having the skip in the sequence numbers;

determining that an inactive time associated with the flow has exceeded a maximum allowed inactivity period, the flow having a context identifier;

establishing that the flow comprises a compressed packet in the place of the full header packet; and

establishing that the full header packet is lost.